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NEWS
     3
        JAN 17
NEWS
        FEB 21
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                The IPC thesaurus added to additional patent databases on STN
NEWS
    5
        FEB 22
                Updates in EPFULL; IPC 8 enhancements added
NEWS
    6
        FEB 22
                New STN AnaVist pricing effective March 1, 2006
NEWS
     7
        FEB 27
NEWS 8
        MAR 03
                Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 9 MAR 22
                EMBASE is now updated on a daily basis
                New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS 10 APR 03
                Bibliographic data updates resume; new IPC 8 fields and IPC
NEWS 11
        APR 03
                thesaurus added in PCTFULL
NEWS 12 APR 04
                STN AnaVist $500 visualization usage credit offered
        APR 12
                LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS 13
                Improved structure highlighting in FQHIT and QHIT display
NEWS 14
        APR 12
                 in MARPAT
                Derwent World Patents Index to be reloaded and enhanced during
NEWS 15 APR 12
                 second quarter; strategies may be affected
NEWS 16
        MAY 10
                CA/CAplus enhanced with 1900-1906 U.S. patent records
        MAY 11
NEWS 17
                KOREAPAT updates resume
                Derwent World Patents Index to be reloaded and enhanced
NEWS 18 MAY 19
                IPC 8 Rolled-up Core codes added to CA/CAplus and
NEWS 19 MAY 30
                USPATFULL/USPAT2
NEWS 20 MAY 30
                The F-Term thesaurus is now available in CA/CAplus
                The first reclassification of IPC codes now complete in
NEWS 21
        JUN 02
                 INPADOC
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chain nodes:
7 14 21 22 23 24 25

ring nodes :

chain bonds :

2-14 5-7 7-8 14-15 14-21 14-22 22-23 23-24 24-25

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13 15-16 15-20

16-17 17-18 18-19 19-20

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 14-22 22-23 23-24 24-25

exact bonds :

2-14 7-8 14-15 14-21

normalized bonds :

8-9 8-13 9-10 10-11 11-12 12-13 15-16 15-20 16-17 17-18 18-19 19-20

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:Atom

Generic attributes :

25:

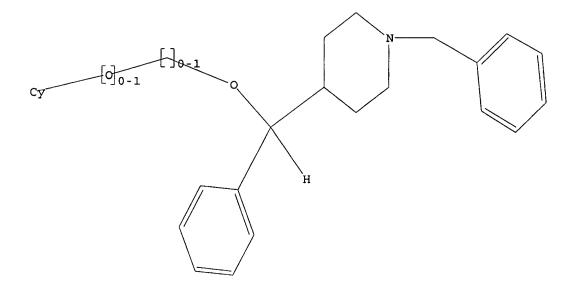
Saturation : Unsaturated Number of Carbon Atoms : less than 7

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

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BATCH **COMPLETE**

PROJECTED ITERATIONS: 13755 TO 17085 PROJECTED ANSWERS: 3 TO 163

L2 3 SEA SSS SAM L1

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SEARCH TIME: 00.00.01

L3 25 SEA SSS FUL L1

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=> s 13

L4 3 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 2004;589417 CAPLUS DOCUMENT NUMBER: 141:140320

A preparation of insecticidal piperidine and pyridine derivatives TITLE:

derivativas Ding, Pang: Henrie, Robert H., II; Cohen, Daniel H.; Lyga, John W.: Rosen, David S.; Theodoridis, George: Zhang, Qun; Yeager, Walter H.; Donovan, Stephen F.; Zhang, Steven Shunxiang; Shulman, Inna: Yu, Seong INVENTOR(S):

Jae: Wang, Guozhi; Zhang, Y. Larry; Gopalsamy, Ariamala; Warkentin, Dennis L.; Rensner, Paul E.; Silverman,

Ian

R.: Cullen, Thomas G. FMC Corporation, USA PCT Int. Appl., 182 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S):

DOCUMENT TYPE: English 2

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

Current appl.

PATENT NO. WO 2004060371						DATE 20040722		APPLICATION NO.					DATE 20031208			
																WO 2003-US38878
								w:	AE,	AG,	AL,	AM,				AT,
	CN,	co,	CR.	Cυ,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
	GE,	GH,	GM,	HR,	Hυ,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	ΚZ,	LC,
	LK.	LR,	LS,	LT,	LU,	LV.	MA,	MD,	MG,	MK,	MN,	MW,	ΜX,	MZ,	NI,	NO,
	NZ.	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	S€,	SG,	SK,	SL,	SY,	ΤJ,
	TM,	TN,	TR.	TT,	TZ,	UA,	UG,	US,	UZ,	vc,	VN,	ΥU,	ZA,	ŹM,	2W	
RW;	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	ΤZ,	UG,	ZM,	ZW,	AM,	AZ,
	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,
	ES,	FI.	FR,	GB,	GR,	Hυ,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,
	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,

TG AU 2003296308 A1 20040729 EP 1572207 A1 20050914 R: AT, BE, CH, DE, DK, ES, FR, IE, SI, LT, LV, FI, RO, MK, BR 2003017324 A 20051116 AU 2003-296308 EP 2003-814662 20031208 20031208 EP 2003-814662 20031208
GB, GR, IT, LI, LU, NL, SE, MC, PT,
CY, AL, TR, BG, C2, EE, HU, SK
BR 2003-17324 20031208
CN 2003-80109445 20031208
US 2002-434718P P 20021218 CN 1729178 CN 1744895 20060201 20060308 PRIORITY APPLN. INFO.

> US 2003-495059P P 20030814 WO 2003-US38878 W 20031208

OTHER SOURCE(S): MARPAT 141:140320

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The invention relates to a preparation of insecticidal piperidine and pyridine
 derivs. of formula I {wherein: A is C or CH; B is substituted phenyl; C

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

726129-24-4 CAPLUS
Piperidine, i-[4-12-ethyl-2H-tetrazol-5-yl)phenyl]methyl]-4-[4-(trifluoromethoxy)phenyl][4-(trifluoromethoxy)phenyl]methoxy]methyl]-(9CI) (CA INDEX NAME)

726129-25-5 CAPLUS
Piperidine, 4-[[[4-(2-methyl-2H-tetrazol-5-yl)phenyl]methoxy][4-(triflucromethoxy)phenyl]methyl]-1-[[4-(2-methyl-2H-tetrazol-5-yl)phenyl]methyl]- (9CI) (CA INDEX NAME)

726|29-26-6 CAPLUS

Benzoic acid, 4-(trifluoromethyl)-, [1-[[4-(2-ethyl-2H-tetrazol-5-yl)phenyl]methyl)-4-piperidinyl][4-(trifluoromethoxy)phenyl]methyl ester
(9C1) (CA INDEX NAME)

ANSMER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
OO-1; D is (CH2;0-3; E is a bridging group selected from
(CR8R10)-(CR1R12;0-1, (CR9R10)-(CR1R12;0-10, C3H6, C10), or C15NH,
etc.; R1 is H, alkyl, alkoxyalkyl, or aryl; R2, R3, R4, R5, and R6 are
independently selected from H, halogen, (halo/hydroxylalkyl, alkylthio,
CN, or NO2, etc.; R7 is thalo/hydroxy/alkoxy/dialkylamiolalkyl,
sulfonatoalkyl, arylalkyl, or arylcarbonyl, etc.; R8 is H, (eyclolalkyl,
alkoxy, amino, morpholinyl, or indolyl, etc.; R9, R10, R11, and R12 are
independently selected from H, alkyl, aryl, etc.]. Prepd. compts. were
evaluated for activity against tobacco budworm in a surface-treated diet
test. Por instance, piperidine deriv. II (compd. 101, insecticidal
activity; 100% mortality, 100% growth inhibition) was prepd. via
elimination reaction of hydroxymethylipperidine deriv. III, N-bensylation
of the obtained methylenepiperidine deriv. IV by 4-nitrophenylmethyl
bromide, subsequent redn. of the nitro-group, N-carboxylation of the
obtained amine V, and N-oxidn. (example 1).
726127-61-97 726129-93-97 726129-92-79
726129-03-07 726130-08-19 726130-09-29
726130-01-59 726130-08-19 726130-09-29
726130-01-59 726130-01-67 726130-12-79
726130-13-59 7261312-569 726130-13-18-29
RL: AGR (Agricultural use); BSU (Biological study); PREP (Preparation);

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation);

USES (Uses)

(Uses) (preparation of insecticidal piperidine and pyridine derivs.)
726127-41-9 CAPLUS
Pyridine, 2-[[1-[4-2-methyl-2H-tetrazol-5-yl)phenyl]methyl]-4piperidinyl[(4-(trifluoromethoxy)phenyl]methoxy]-5-(trifluoromethyl)(9CI) (CA INDEX NAME)

726129-23-3 CAPLUS

Piperidine, 1-[[4-(2-ethyl-2H-tetrazol-5-yl)phenyl]methyl]-4-[[4-(trifluoromethoxylphenyl][[4-(trifluoromethyl)phenyl]methoxylmethyl]-(9CI) (CA INDEX NAME)

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

$$\begin{array}{c} \text{Et} \\ \text{N} \\ \text{N} \\ \text{N} \\ \text{N} \end{array} \begin{array}{c} \text{CH}_2 \\ \text{CH}_2 \\ \text{CH}_3 \\ \text{CH}_3$$

726129-27-7 CAPLUS
Benzoic acid, 4-(trifluoromethoxy)-, [1-[[4-(2-ethyl-2H-tetrazol-5-yl)phenyl]methyl]-4-piperidinyl][4-(trifluoromethoxy)phenyl]methyl ester (SCI) (CA INDEX NAME)

$$Et \longrightarrow N \longrightarrow CH_2 \longrightarrow CH_2$$

726129-92-6 CAPLUS
Pyridine, 5-chloro-2-{[1-{[4-(2-methyl-2H-tetrazol-5-yl)phenyl]methyl]-4-piperidinyl][4-(rifluoromethyl)phenyl]methoxy|- (9CI) (CA INDEX NAME)

726129-94-8 CAPLUS
Pyridine, 2-[[1-[[4-(2-pyridinyloxy)phenyl]methyl]-4-piperidinyl][4-(trifluoromethyl)phenyl]methoxy]-5-(trifluoromethyl)- (9CI) (CA INDEX

726129-95-9 CAPLUS
Pyridine, 2-[[1-[[4-(2-pyridinyloxy]phenyl]methyl]-4-piperidinyl)[4-(trifluoromethyl)phenyl]methoxy]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME) RN CN

726129-97-1 CAPLUS
Pyridazine, 3-chloro-6-[4-[4-[4-{trifluoromethyl]phenyl]}{5-(trifluoromethyl)-2-pyridinyl]oxy]methyl}-1-piperidinyl]methyl]phenoxy]-(9C1) (CA INDEX NAME)

revis.778-L. CARMS
Pyridazine, 3-chloro-6-[4-[[4-([4-(trifluoromethyl)phenyl][[4-(trifluoromethyl)-2-pyridhyl]pxy]methyl]-1-piperidinyl]methyl]phenoxy]-[9C1) (CA INDEX NAME)

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

726|30-|0-5 CAPLUS

Benzaldehyde, 4-[(4-[(4-(trifluoromethyl)phenoxy][4-(trifluoromethyl)phenolyl]-, O-ethyloxime (9CI)

(CA INDEX NAME)

726130-11-6 CAPLUS
Pyridina, 2-[4-[4-[4-(trifluoromethyl)phenoxy][4(trifluoromethyl)phenyl]methyl)-1-piperidinyl]methyl)phenoxy]- (9CI) (CA
INDEX NAME)

726130-12-7 CAPLUS
Pyrimidine, 2-[4-[4-[4-(trifluoromethoxy)phenyl] [4(trifluoromethyl)phenoxy]methyl]-1-piperidinyl]methyl]phenoxy]- (9CI) RN CN

(CA

INDEX NAME

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

726129-99-3 CAPLUS
Pyridine, 2-[(1-oxido-1-[[4-(2-pyridinyloxy)phenyl]methyl]-4piperidinyl][4-(trifluoromethyl)phenyl]methoxy]-5-(trifluoromethyl)-

(CA INDEX NAME)

726130-00-3 CAPLUS

/20130-00-3 CAPLUS
Pyridine, 3-chloro-5-[{1-[[4-{2-pyridinyloxy}phenyl]methyl]-4piperidinyl][4-{trifluoromethyl}phenyl]methoxy]- (9CI) | ICA INDEX NAME)

726130-08-1 CAPLUS
Pyridarine, 3-chloro-6-[[]-[[4-(2-pyridinyloxy)phenyl]methyl]-4piperidnyl][4-(trifluoromethyl)phenyl]methoxy]- [9CI) (CA INDEX NAME)

RN 726130-09-2 CAPLUS
CN Pyridazina,
3-chloro-6-([1-[{4-(2-methyl-2H-tetrazol-5-yl)phanyl]methyl]-4piperidinyl][4-(trifluoromethoxy)phanyl]methoxy}- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 726130-13-8 CAPLUS
CN Carbamic acid,
[4-{{4-{(1-methylethoxy)carbonyl]amino}phenyl]methoxy
[14-{trifluoromethyl]phenyl]methyl}-1-piperidinyl]methyl]phenyl}1-methylethyl ester (9C1) (CA INDEX NAME)

726132-15-6 CAPLUS
Carbonic acid, phenyl [1-[[4-(2-pyridinyloxy)phenyl]methyl]-4piperidinyl][4-(trifluoromethyl)phenyl]methyl ester (9CI) (CA INDEX

726133-18-2 CAPLUS
Pyrimidine, 2-(4-([1-oxido-4-[(4-(trifluoromethoxylphenyl)|[4-(trifluoromethyl]phenoxy]methyl[-1-pxperidinyl]methyl]phenoxy]- (9C1)

(CA INDEX NAME)

Ph - CH2 OMe

■ RB

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1964:16612 CAPLUS DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 60:16612 60:2903b-h ou:2903b-h
Phenyl(pyridyl or piperidyl)alkyl benzoates and
phenylalkanoates
Rorig, Kurt J.
G.D. Searl J.
G.D. Searl and Co.
10 pp.
Fatent TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: PATENT INFORMATION: Unavailable PATENT NO. APPLICATION NO.
US 1959-803371 KIND DATE US 3100775 19630813 US 3100775 19630813 US 1959-803371 1959080 For diagram(s), see printed CA Issue. Carbinols of the general formula RR'ArCR''nOH, where R is an alkyl or aryl group, R' is a pyridyl or piperidyl group. Ar is an aryl group, R' is an aryl group, R' is an aryl group, R' is an alkylene group, and n is 0 or 1, are treated with anhydrides of the general formula (PhRnCol2o, where R is an alkylene group and n is 0 or 1, to give the title compds, which can be used as spassmolytic and lungicidal agents. Thus, a mixture of α-phenyl-4-pyridinemethanol 25 and α-ClG6H4COCl 60 parts is heated 11 hrs. under N at 130-50°, cooled to .apprx.30°, treated with excess 10% NaOH, and extracted with ether. The ether extract is extracted with dilute HCl, the acid extract made alkaline with NaOH. alkaline with NaOH.

the precipitate separated and taken up in ether, the ether mixture filtered, dried, and evaporated, and the residue obtained distilled in vacuo to give uphenyl-4-pyridymethyl o-chlorobenzoate, b0.15 175-95*. Similarly prepared are the following I (m. n. R, R1, R2, R3, X, X1, X2, X3, X4, L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 1954:28787 CAPLUS DOCUMENT NUMBER: 48:28787 ORIGINAL REFERENCE NO.: 48:5183d-i,5190a-i,5191a-c 48:5189d-1,5190a-1,5191a-c
Quinolyl ketones. I
de Diesbach, Henri: Pugin, Andre: Morard, Franccis;
Nowaczinski, Mojceich; Dessibourg, Joseph
Univ. Fribourg, Switz.
Helvetica Chimica Acta (1952), 35, 2322-32
CODEN: HCACAV: ISSN: 0018-019X
Journal AUTHOR(S): CORPORATE SOURCE: SOURCE: DOCUMENT TYPE: MENT TYPE: Journal UAGE: French R SOURCE(S): French R SOURCE(S): CASREACT 48:28787
For diagram(s), see printed CA Issue.
A number of quinolyl ketones (II, prepared by the Skraup synthesis from 4-aminobenzophenones, have been reduced with Raney Ni and H at ordinary pressure and temperature to the tetrahydro derivs. (II) and with LANGUAGE: OTHER SOURCE(S): pressure and temperature to the tetrahydro derivs. (II) and with ProJAhl to the carbinols (III), but could not be reduced to the tetrahydro carbinols (IV.). Raney Ni reduces III to the methylene derivs. (V) instead of to IV. Thus 6-benzoylquinoline (VI), colorless crystals, m. 60.5° (from ligorinet (VI.HZO, white plates, m. 39-40° (from MeOH or ECOH); picrate, m. 222'; phenylhydrazone, m. 184°; syn-oxime, m. 199-205'; anti-oxime, m. 192-8'), is prepared by heating p-HZNC6HBS; PhNO2, glycerol, and concentrated HZSO4 3 h. at 160°, diluting, treating with steam, acidifying, alkalizing, taking up in EZO, filtering, and distilling at 260'/16 mm. Similarly are prepared the following compds. ((a) starting amine, and (b) corresponding oline derivative): (a) 3,4-Me(H2N)C6H3Bz; (b) 6-benzoyl-8-methylquinoline. derivative]: (a) 3,4-Me(HZN)CGH3Bz; (b) 6-benzoyl-8-methylquinoline.),
yellowish plates, m. 199° (from AcOH) [phenylhydrazone, m.
235-7° (from CGH6]). (a) 4-Amino-4'-chlorobenzophenone; (b)
6-(p-chlorobenzoyl)quinoline (VIII), m. 204° (from ligroine, b.
120-80°, then from NeOH). (a) 4-Amino-2'-4'-dichlorobenzophenone,
m. 130-1' (100X yield by Range Ni hydrogenation of the 4-nitro
analog in MeOH 24 h. at 100° and 80 atmospheric); (b) 6-12,4dichlorobenzoyl)quinoline (IX), white crystals, m. 131-2' (A)
4-Amino-2',5'-dichlorobenzophenone, white crystals, m. 123° (from
60% alc.), from the 4-nitro analog with SnCl2 or Na25; (b)
6-12,5-dichlorobenzoyl)quinoline (X), white needles, m. 134-5°
(from dilute alc.) (picrate, m. 208-9°). (a) 4-Amino-3',4'dichlorobenzophenone, white crystals, m. 161-2' (from alc.), from
the 4-nitro compound with SnCl2: (b) 6-13,4-dichlorobenzoyl)quinoline n. 139-40° (from higroine and MeOH) (picrate, m. 173-4°).

(a) 4-Amino-4'-chlorobenzophenone; (b) 6-(4-chlorobenzyl) quincline, m. 191,5-2° (from alc.) (a) 4-Amino-2',4'-dischlorodiphenylmethane.
blue crystals, m. 102-3° (Ac derivative, m. 141-2°), from the
4-nitro compound with SnCl2; (b) 6-(2,4-dischlorobenzyl) quincline (in poor
yield) (picrate, m. 167-8°). (a) 4-Amino-3',4'dischlorodiphenylmethane, an oil (Bz derivative, m. 106-7°), from the
4-nitro compound and SnCl2; (b) 6-(3,4-dischlorobenzyl) quincline

4-nitro compound and SNC12; (p) 0-13,4-universal enterpolarity (picrate, m. 164-5°), 6-Acetyl-1,2,3,4-tetrahydroquinoline (XII), greenish plates, m. 105-7° (picrate, m. 125°; oxime, m. 144°), is prepared by condensing 1-acetyl-1,2,3,4-tetrahydroquinoline with CICHZCOC1 at room temperature, saponifying the 1-Ac group with boiling 201 HCl, and heating in 80% alc. with powdered Fe and 2N HCl; heated 5 h. at 186° in a sealed tube with Hg(OAc)2, AcOH, and H2O it gives yellowish prisms of

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) 6-acetylquinoline, m. 75-6* (picrate, m. 242*). A Beckmann rearrangement of XII oxime gives 6-amino-1,2,3,4-tetrahydroquinoline, m. 95.5-6*. Na tedn. of Quinaldine in Amolf gives 931 1,2,3,4-tetrahydroquinaldine, acetylated with Ac20 to the 1-Ac deriv.,

1,2,3,4-tetrahydroquinaldine, acetylated with Ac20 to the 1-Ac deriv.,
153°, yellow crystals, m. 57°, which, treated with C1CH2COC1
in C52, then slowly with AlC13, and let stand 2 days yields
6-(chloroacetyl)-1,2,3,4-tetrahydroquinaldine-HC1, white crystals, m.
225-6°, converted by neutralization with dil. alkali to the free
quinaldine, yellow crystals, m. 121°, which is dechlorinated in 80°s
HC1 with Fe and 2N HC1 to 6-acetyl-1,2,3,4-tetrahydroquinaldine, m.
69°. The following 1,2,3,4-tetrahydroquinolines are prepd. in good
yield by hydrogenating 5 g. of the appropriate I in 50° mL MoOH at room
temp. and pressure in the presence of Raney Ni, warming, filtering,
washing the Ni with warm MoOH, evapg, to a small vol., and recrystg.:
6-benzoyl (XIII), yellowish crystals, m. 113° {1-ON deriv., m.
119-20°; 1-Bz deriv., m. 131° (from 501 AcOH); 1-Ac deriv.,
m. 97° (from dil. alc.)]; 6-benzoyl-6-the, pale yellow needles, m.
118°; 6-(p-chlorobenzoyl) tetrahydroquinoline, m. 156° (1-ON
deriv., m. 173-4°, 6-Bz deriv., m. 146°);
6-(2,5-dichlorobenzoyl), m. 137° (1-ON deriv., m. 145°);
6-(2,5-dichlorobenzoyl), m. 133°. The Meerwein-Ponndorf redn. of I
to III is carried out in nearly 100% yield by adding 10 g. of the I in 30
mL. iso-PrOH to (iso-PrO)3Al (made by refluxing 2.5 g. Al paste 10 h.
0.125 g. HoCl2 in 50° mL. abs. iso-PrOH, slowly dista, the Me2C0 formed, ь12

m. iso-PrOH to (iso-PrO)3Al imade by refluxing 2.5 g. Al paste 10 h.

0.125 g. HgC12 in 50 mL. abs. iso-PrOH), slowly distg. the Me2CO formed, alkalizing, steam-distg, the iso-PrOH, adding boiling H2O to the residue, and crystq. from dil. alc. Thus are prepd. the following carbinols: phenyl(6-quinoly1) (XIV), m. 127-8' (picrate, m. 190'; picrate of the acetate (ester), m. 188'; phenyl(8-methyl-6-quinoly1) (XIV), m. 133' (picrate, m. 202-3'; acetate (ester), m. 100' (from dil. alc.)); (p-chlorophenyl)(6-quinoly1), m. 153' (picrate, m. 186'; picrate of the acetate (ester), m. 209'); (2.4-dichlorophenyl)(6-quinoly1), m. 161' (picrate, m. 225'; acetate (ester), m. 125-6'; picrate of the acetate, m. 212'); X, (2.5-dichlorophenyl)(6-quinoly1), m. 161' (acetate (ester), m. 174'); (3.4-dichlorophenyl)(6-quinoly1), m. 161' (acetate (ester), m. 174'); (3.4-dichlorophenyl)(6-quinoly1), m. 165' (picrate of the acetate (ester), m. 189-90'). Raney N: hydrogenation of XIV gives 6-benzylquinoline, white crystals, m. 48-9'; similarly XV is reduced to 6-benzyl-8-methylquinoline, m. 55'. An attempted (iso-PrO)3Al redn. of XIII to the corresponding IV gives instead a white paste, m. 120-40', sol. in 66H6 and CICl3, slightly sol. in alc.
2-Benzeylquinoline is reduced by (iso-PrO)3Al in 100 yield to phenyl(2-quinoly)lcarbinol (XVI), white crystals, m. 69' (from ligroine); also obtained by Raney Ni hydrogenation at room pressure and temp, [picrate, yellow crystals, m. 188' (from alc.)], instead of to the tetrahydro deriv. Phenyl(1,2.), 4-tetrahydro-2-quinalylcarbinol, bl. 0.005 140' (1-0M deriv., yellow plates, m. 107' (from dil. slc.); N.O-di-Bz deriv., m. 161' (from ligroine)), is prepd. by reducing 2.9 2-benzeylquinoline in f. from ligroine), is prepd. by reducing 2.9 3-benzeylquinoline in f. from ligroine), is prepd. by reducing 2.0 a small vol., dil, with H2O, adding E2Co, and vacuum-distg. with

oil. 4-Benzoylquinoline is reduced by (iso-PrO)3Al to phenyl(4-quinolyl)carbinol, m. 127° (from dil. alc.) (acetate (ester), white plates, m. 100°), and by Raney Ni hydrogenation at 100° and 70 atm. to phenyl(1,2,3,4-tetrshydro-4-quinolyl)carbinol, m. 135° (from dil. alc.), bo.001 110-15° (1-0N deriv., yellow leaves, m. 105° (from dil. ac.); N,0-di-Bz deriv., m.

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

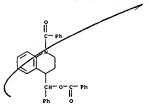
ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STM (Continued) 156° (from ligroine)]. 2-Methyl-4-bentoylquinoline (XVII), bright plates, m. 118° (from ligroine), is prepd. by heating 2 g. 2-methyl-4-quinolinecarboxamide in 30 mL. POC13 with 3 g. PC15 (with 2 drops water added to start the reaction) 15-20 min. at 110°, cooling with ice, neutralizing, extg. with Et20, crystg. from ligroine

2-methyl-4-cyanoquinoline (XVIII), white needles, m. 106°, and adding the Geignard reagent from 12 g. PhBr and 2 g. Mg in 30 mL. Et20 to 5 g. XVIII in 50 mL. Et20; XVII is reduced by (iso-Pr)3Al to phenyl(2-methyl-4-quinolyl)carbinol, colorless prisms, m. 167° (from dil. alc.) [accate (ester), m. 103' (from dil. alc.)], and by Raney Ni hydrogenation at 100° and 70 atm. to phenyl(2-methyl-1, 2, 3, 4-tetrahydro-4-quinolyl)carbinol, m. 162° (from dil. alc.), b0.001 130° (N.O-Bz deriv., m. 149° (from dil. alc.), b1.001 130° (N.O-Bz deriv., m. 149° (from dil. alc.), b2.01 130° (N.O-Bz deriv., m. 149° (from dilgorine)). Raney Ni redn. at room pressure and temp. of 8-benzoylquinoline gives at once phenyl(1,2 3,4-tetrahydro-8-quinolyl)carbinol, oil, b0.001 120° [1-0N deriv., yellow prisms, m. 146° (from alc.), (di-Bz deriv., m. 132° (from ligroine)). Nitration of 6 g. VI in 25 mL. concd. M2504 with 1 mL. nitrating mixt. (*0.255 g. NHO3) added at -10°, followed by cooling with ice, filtering, neutralizing with NH4OH, and crystg. in alc., gives 6-(m-nicrobenzoyl)quinoline, yellow needles, m. 160°, which reduced by SnC12 in alc. to the amino compd., yellow crystals, m. 142° (from H2O). Similarly, VII is nitrated to 6-(n-nicrobenzoyl)-8-methylquinoline, m. 156°, which is reduced to the 3-amino compd., yellow crystals, m. 187° (from ligroine). The (dichlorobenzoyl)quinolines cannot be nitrated. \$58473-25-3, 4-Quinolinemethanol, 1-benzoyl-1,2,3,4-tetrahydro-a-phenyl-, benzoate \$52473-28-6, 4-Quinolinemethanol.

[preparation of)

(preparation of) 858473-25-3 CAPLUS

4-Quinolinemethanol, 1-benzoyl-1,2,3,4-tetrahydro- α -phenyl-, benzoate (5CI) (CA INDEX NAME)



858473-28-6 CAPLUS 4-Quinolinemethanol, 1-benzoyl-1,2,3,4-tetrahydro-2-methyl- α -phenyl-, benzoate (SCI) (CA INDEX NAME)

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---Logging off of STN---

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Executing the logoff script...

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	15.79	182.94
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.25	-2.25

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